

Notice of Allowability

Application No.

10/648,342

Examiner

Dmitry Suhol

Applicant(s)

KAO, CHIAO-MU

Art Unit

3725

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to _____.
2. ☒ The allowed claim(s) is/are 1-3.
3. ☒ The drawings filed on 27 August 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 8/27/2003
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

D. Suhol
D. Suhol

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The specific limitation of a combination of "...movable mounting bed apparatus of a spring forming machine comprising a mounting bed, a mounting bed base, a sliding rail base, a shaft coupling, a ball screw, a screw seat, four sliding seats, two linear sliding rails, a wire feeding apparatus supporting base and a foundation, wherein: on the rim of the mounting bed has six rim protrusion portions; the bottom of the mounting bed is mounted to the mounting bed base; the mounting bed is provided on the center thereof with a central hole for receiving the front end of the wire feeding apparatus supporting base; the mounting bed base has a bottom protrusion portion having a screw hole engaged with the ball screw; an end of the screw hole is embedded with the screw seat; Both sides of the bottom of the mounting bed base respectively have a groove each respectively mounted with two sliding seats; the sliding rail base has a protrusion portion, both sides of which are respectively mounted with a linear sliding rail; the bottom of the sliding rail base is mounted to the foundation; an end of the shaft coupling is mounted to the servomotor, and the other end thereof is mounted to the ball screw; an end of the ball screw is mounted to the shaft coupling, and the other end thereof is first penetrated through the screw seat embedded into an end of the screw hole of the bottom protrusion portion of the mounting bed base and then is engaged with the screw hole; the screw seat is embedded into an end of the screw hole of the bottom protrusion portion of the mounting bed base for supporting the ball screw; the foundation has a recess for receiving the servomotor; both sides of the recess respectively have a

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supporting block for supporting the wire feeding apparatus supporting base that supports a wire feeding apparatus; the foundation is mounted with the sliding rail base; the tops of the four sliding seats are mounted to the grooves of both sides of the bottom of the mounting bed base, and the bottoms thereof are engaged with the linear sliding rails; the bottoms of the two linear sliding rails are mounted to both sides of a protrusion portion of the sliding rail base, and the tops thereof are engaged with the sliding seats; and the wire feeding apparatus supporting base is positioned on the supporting block; the front end thereof passes through the central hole of the mounting bed” are not anticipated or made obvious over the prior art of record in the examiners opinion. For example, Itaya '942 and '002 discloses a movable bed apparatus of a spring forming machine which teaches the use of a mounting bed 210, a mounting bed base (209), a sliding rail base (back having rails 208), a motor (211) controlling the movement of the sliding base, linear side rails (208) four sliding seats (figure 5, seats on rails 208) a wire feeding apparatus (figure 4) and a supporting base (figure 1). However, prior art of record fails to disclose the specific structural layout as claimed (see above) and there would be no motivation to modify the Itaya device to resemble the above claimed structure.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dmitry Suhol whose telephone number is 571-272-4430. The examiner can normally be reached on Mon - Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derris Banks can be reached on (571) 272-4419. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Dmitry Suhol
Examiner
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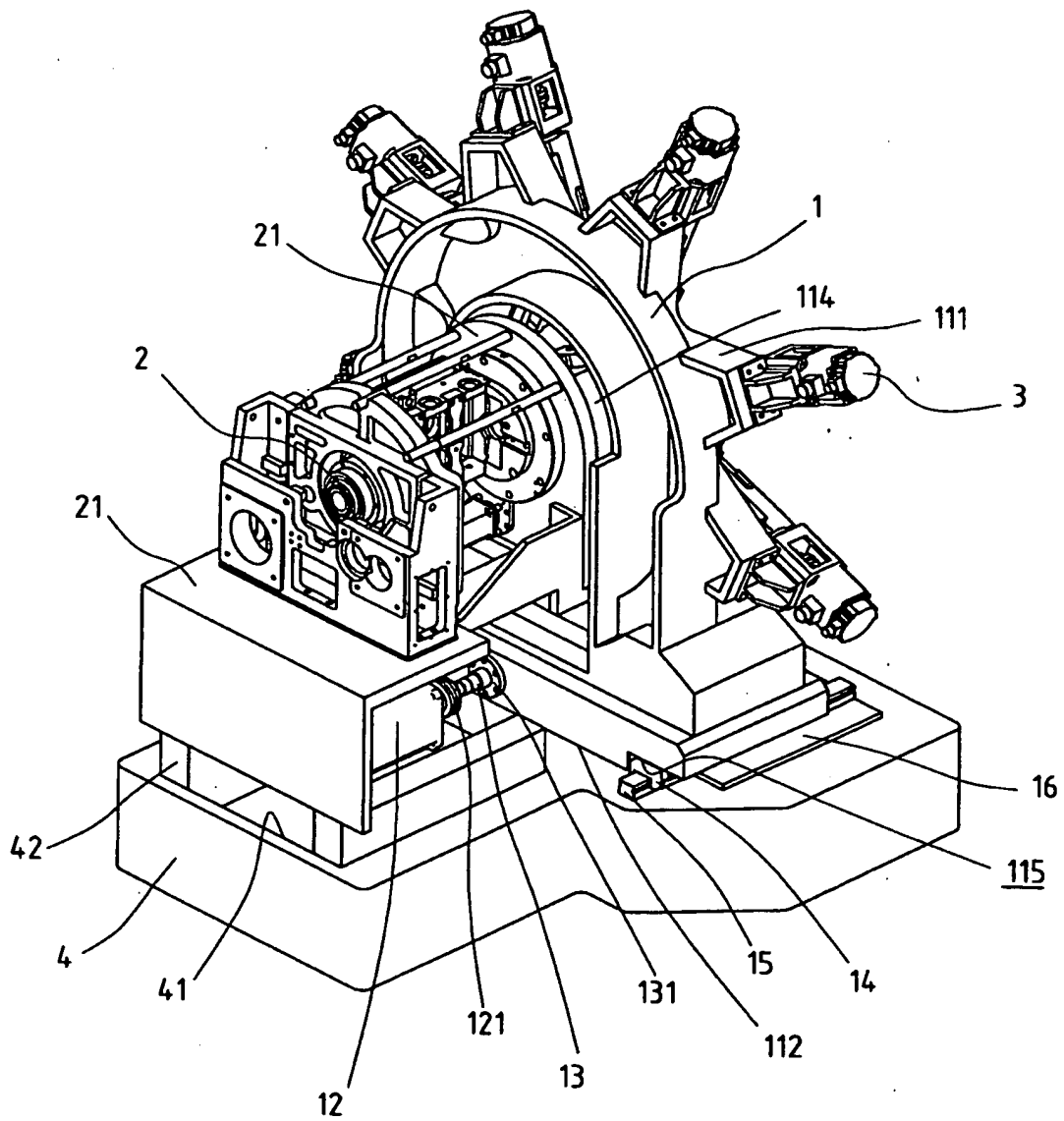


FIG. 2

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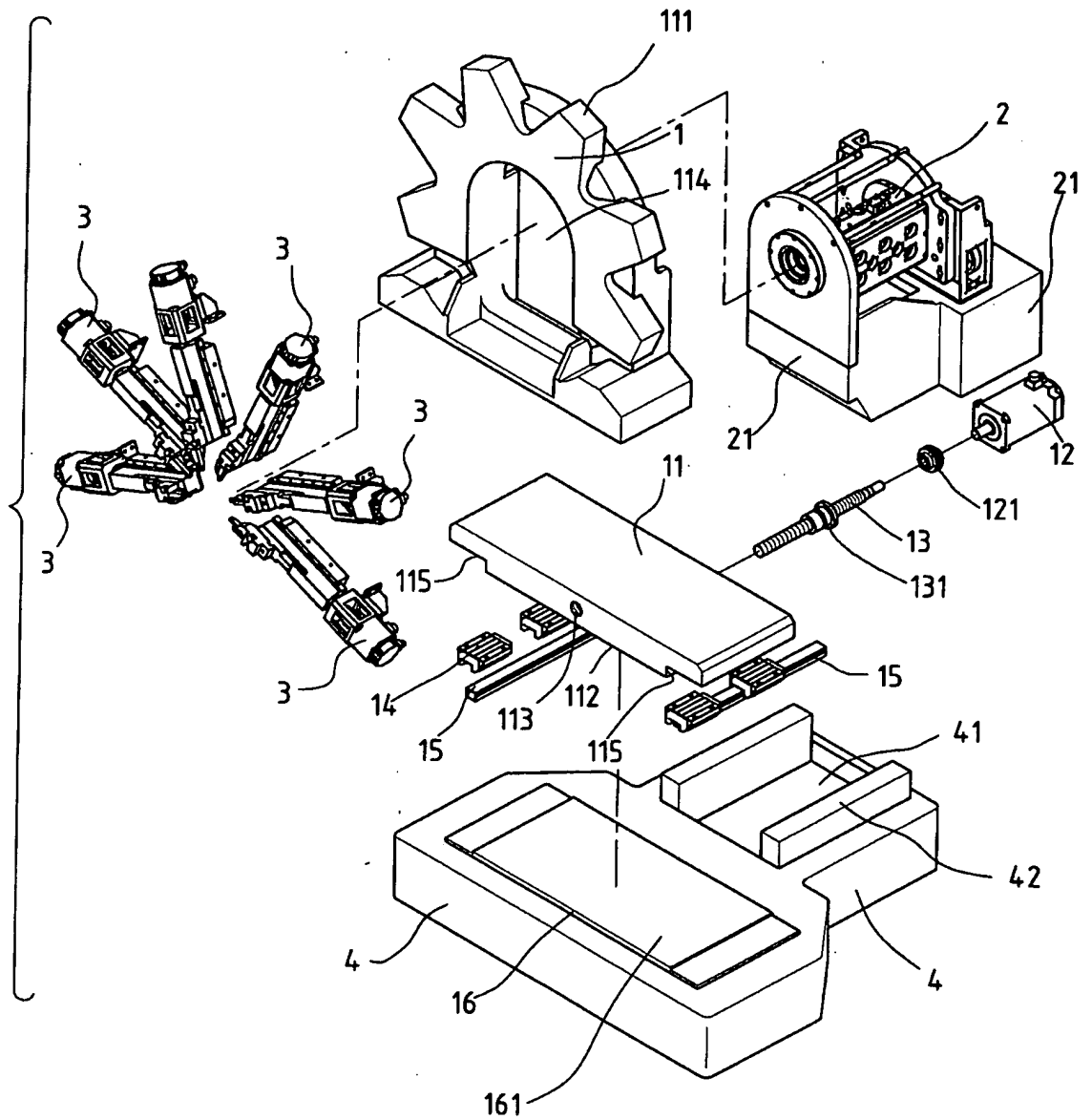


FIG. 3

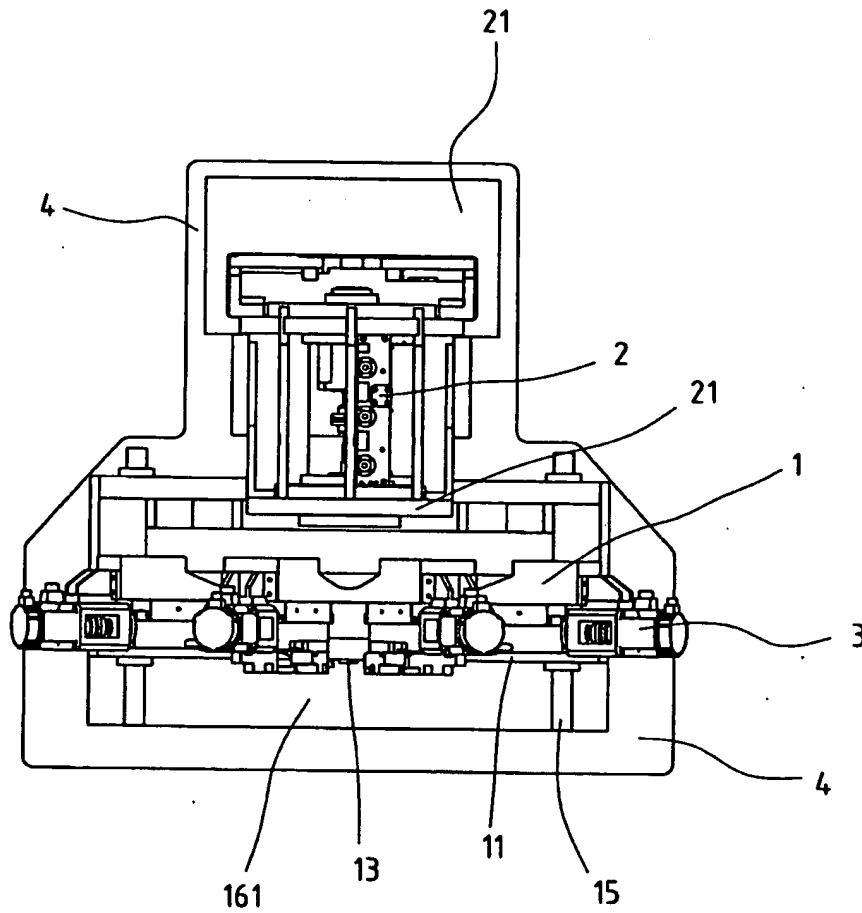


FIG. 4A

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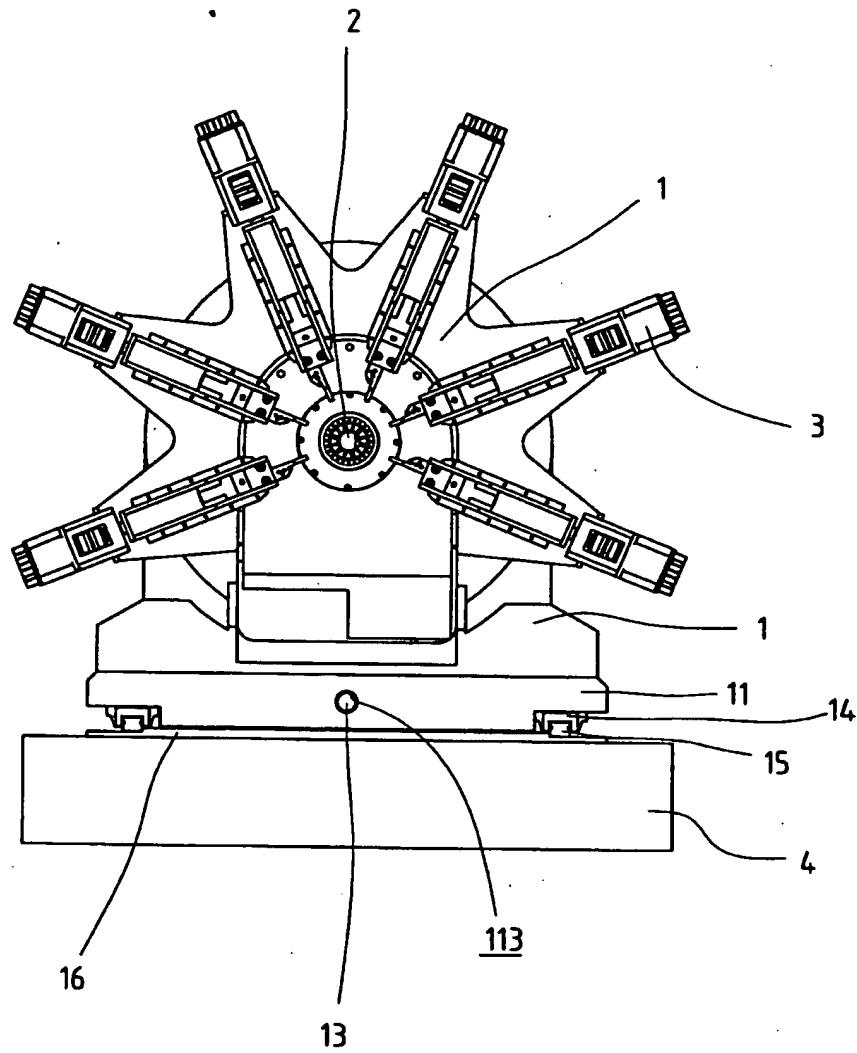


FIG. 4B

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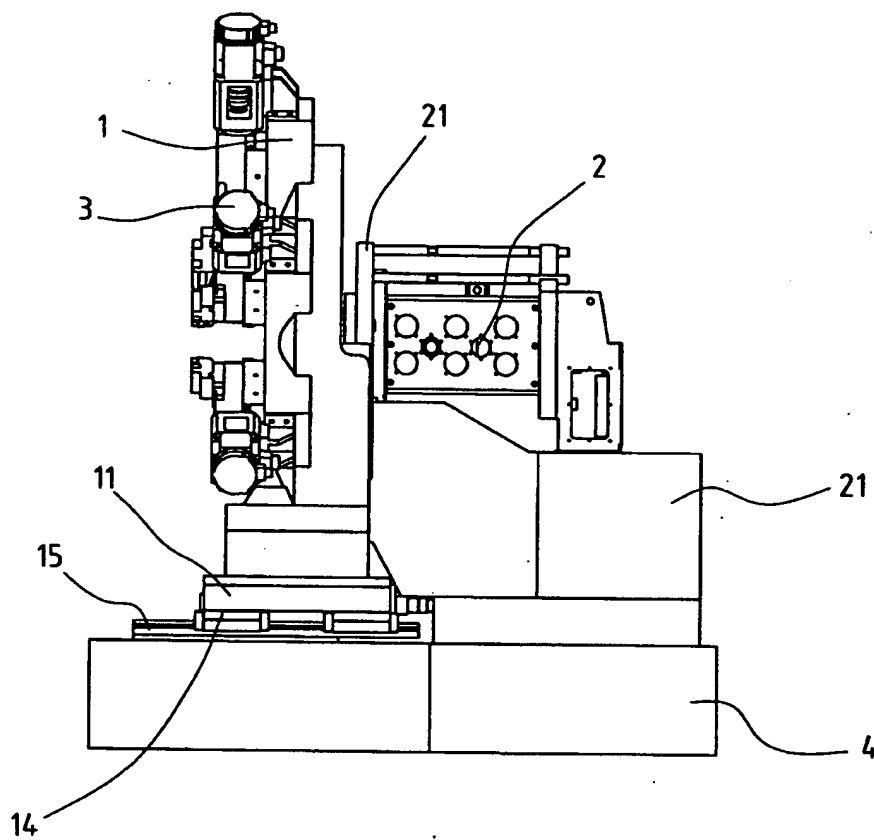


FIG. 4C

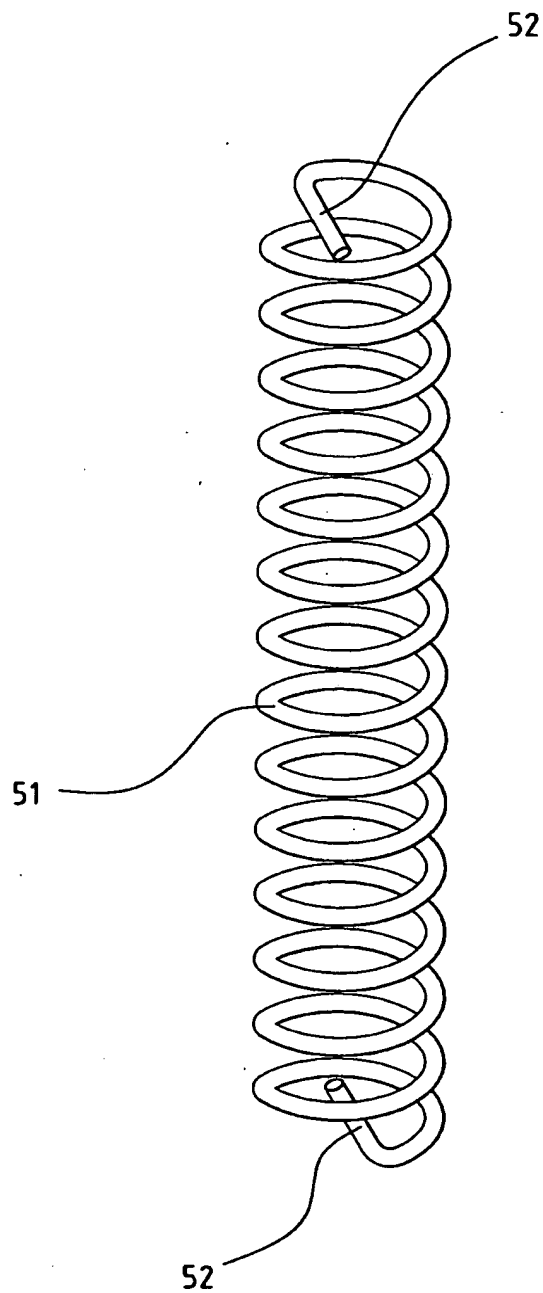


FIG. 5A

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